



STATE OF NEW MEXICO  
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION  
HOBBS DISTRICT OFFICE

GOVERNOR

7/22/99

POST OFFICE BOX 1980  
HOBBS, NEW MEXICO 88241-1980  
(505) 393-6161

OIL CONSERVATION DIVISION  
P. O. BOX 2088  
SANTA FE, NEW MEXICO 87501

DHC-2403

RE: Proposed:

MC \_\_\_\_\_  
DHC X \_\_\_\_\_  
NSL \_\_\_\_\_  
NSP \_\_\_\_\_  
SWD \_\_\_\_\_  
WFX \_\_\_\_\_  
PMX \_\_\_\_\_

Gentlemen:

I have examined the application for the:

Apache Corp Renewalt #3-F-4-22s-37e  
Operator Lease & Well No. Unit S-T-R

and my recommendations are as follows:

OK

Yours very truly, .

Chris Williams  
Supervisor, District 1

/ed

June 30, 1999

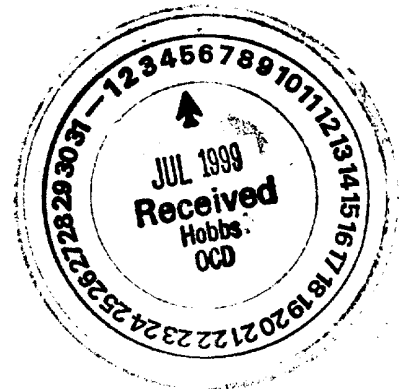
Attn: David Catanach  
State of New Mexico – Oil Conservation Division  
2040 S. Pacheco  
Santa Fe, New Mexico 87505

**Re: Application to Downhole Commingle  
Rinewalt No. 3  
Drinkard Pool (19190) and Wantz Abo Pool (62700)  
Lea County, New Mexico**

Apache Corporation would like to request administrative approval to downhole commingle the referenced pools in the Rinewalt # 3 well.

To support this request we submit the following:

- 1) New Mexico – OCD Form C-107A
- 2) New Mexico – OCD Form C-102 for Drinkard Pool
- 3) New Mexico – OCD Form C-102 for Wantz ABO Pool
- 4) Production Curve for Rinewalt # 3 in the Drinkard Pool
- 5) Production Curve for Rinewalt # 3 in the Wantz Abo Pool prior to being TA'd in 11/72 as well as current production curves for Brunson B # 1 & R L Brunson # 2 in the Wantz ABO Pool
- 6) Explanation of method for determining Allocation formula

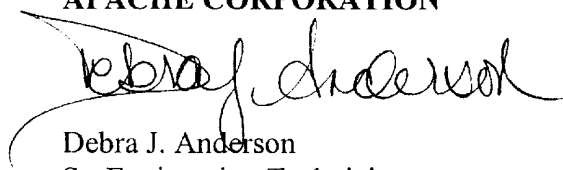


- 7) Copy of letter sent (by Certified Mail) to Offset operators within one-half mile of Rinewalt # 3
- 8) Map of location with one-half mile radius marked
- 9) Well Bore Diagrams of current completion and proposed completion

If you have any questions or require additional information regarding this application, please contact me at 713-296-6338. Thank you.

Sincerely,

**APACHE CORPORATION**

A handwritten signature in black ink, appearing to read "Debra J. Anderson", written over a horizontal line.

Debra J. Anderson  
Sr. Engineering Technician

Attachments

cc: New Mexico Oil Conservation Division  
District I  
1625 N. French Drive  
Hobbs, New Mexico 88240

**DISTRICT I**  
1625 N. French Drive, Hobbs, NM 88240  
**DISTRICT II**  
P.O. Drawer DD, Artesia, NM 88210  
**DISTRICT III**  
1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico  
Energy, Minerals and Natural Resources Department  
**OIL CONSERVATION DIVISION**  
2040 S. Pacheco  
Santa Fe, New Mexico 87505-6429

Form C-107A  
New 3-12-96

APPROVAL PROCESS:  
☒ Administrative  
☐ Hearing  
EXISTING WELLBORE  
☒ Yes ☐ No

APPLICATION FOR DOWNHOLE COMMINGLED

**Apache Corporation** 2000 Post Oak Blvd., Suite 100 - Rm 365A, Houston, Texas 77056-4400  
Operator Address  
**Rinewalt** 3 **F / 4 / T-22S / R-37E** **Lea**  
Lease Well No. Unit Ltr.-Sec-Twp-Rgn County

Spacing Unit Lease Types: (one or more)  
☐ Federal ☐ State ☒ Fee

OGRID NO. 000873 Property Code 23110 API No. 30-025-10036

The following facts are submitted in support of downhole commingling:	Upper Zone	Intermediate Zones	Lower Zone
1. Pool Name and Pool Code	Drinkard ( 19190 )		Wantz Abo ( 67200 )
2. Top and Bottom of Pay Section (Perforations)	6405 - 6616		6714 - 7293
3. Type of production (Oil or Gas)	Oil		Oil
4. Method of Production (Flowing or Artificial Lift)	Artificial Lift		Artificial Lift
5. Bottomhole Pressure Oil Zones - Artificial Lift: Estimated Current Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated or Measured Original	a. (Current)  600  b. (Original)	a.   b.	a.  2100  b.
6. Oil Gravity (*API) or Gas BTU Content	38		35.1
7. Producing or Shut-In?	Producing		Shut-In
Production Marginal? (Yes or No)	Yes		Yes
* If Shut-In, give date and oil/gas/ water rates of last production Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data	Date: Rates:	Date: Rates:	Date: 11/30/72 Rates: 2 x 65 x 0
* If Producing, give date and oil/gas/ water rates of recent test (within 80 days)	Date: 5/15/99 Rates: 3 x 75 x 1	Date: Rates:	Date: Rates:
8. Fixed Percentage Allocation Formula - % for each zone	Oil: 40% Gas: 40%	Oil: % Gas: %	Oil: 60% Gas: 60%

9. If allocation formula is based upon something other than current or past production, or is based upon some other method. submit attachments with supporting data and / or explaining method and providing rate projections or other required data.

10. Are all working, overriding and royalty interests identical in all commingled zones?

☒ Yes ☐ No

If not, have all working, overriding and royalty interests been notified by certified mail?

☒ Yes ☐ No

Have all offset operators been given written notice of the proposed downhole commingling?

☒ Yes ☐ No

11. Will cross-flow occur? ☐ Yes ☒ No If yes, are fluids compatible, will the formations be undamaged, will any cross-flow production be recovered and will the allocation formula be reliable. ☐ Yes ☐ No (If No, attach explanation)

12. Are all produced fluids from all commingled zones compatible with each other? ☒ Yes ☐ No

13. Will the value of production be decreased by commingling? ☐ Yes ☒ No (If Yes, attach explanation)

14. If this well is on or communized with state or federal lands, either the Commissioner of Public Lands or the United States Bureau of Land Management has been notified in writing of this application. ☐ Yes ☐ No

15. NMOCD Reference Cases for Rule 303(C) Exceptions: Order No.s

16. ATTACHMENTS:

- \* C-102 for each zone to be commingled showing its spacing unit and acreage dedication.
- \* Production curve for each zone for at least one year. (If not available, attach explanation.)
- \* For zones with no production history, estimated production rates and supporting data.
- \* Data to support allocation method or formula.
- \* Notification list of all offset operators.
- \* Notification list of working, overriding, and royalty interests for uncommon interest cases.
- \* Any additional statements, data, or documents required to support commingling.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE 

TITLE Sr. Engineering Technician

DATE 6/30/99

TYPE OR PRINT NAME Debra J. Anderson

TELEPHONE NO. 713-296-6338

Submit to Appropriate  
District Office  
State Lease - 4 copies  
Fee Lease - 3 copies

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-102  
Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088  
Santa Fe, New Mexico 87504-2088

DISTRICT I

P.O. Box 1980, Hobbs, NM 88240

DISTRICT II

P.O. Drawer DD, Artesia, NM 88210

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

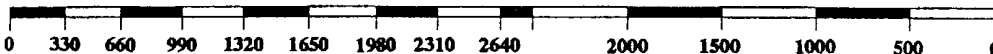
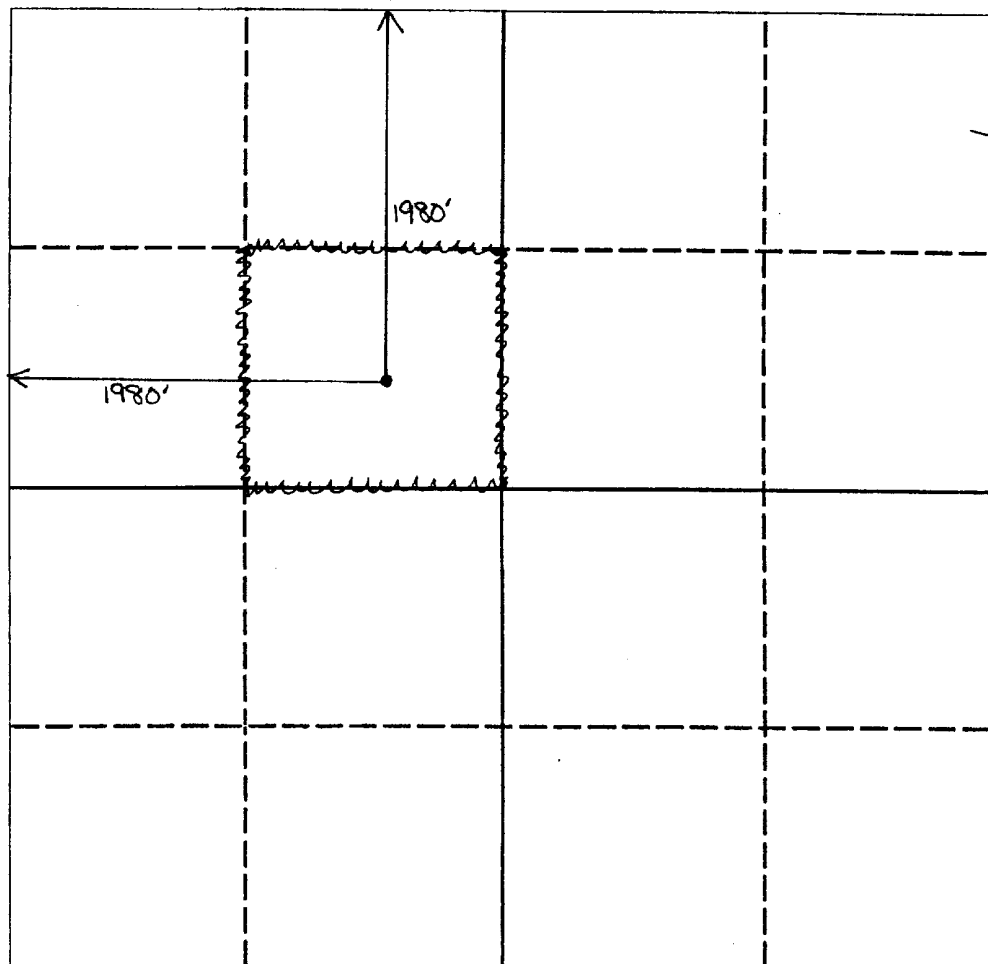
All Distances must be from the outer boundaries of the section

Operator Apache Corporation			Lease Rinewalt		Well No. 3
Unit Letter F	Section 4	Township 22S	Range 37E	County Lea	
NMPM					

Actual Footage Location of Well:

1980 feet from the North line and		1980 feet from the West line	
Ground level Elev. 3456	Producing Formation Drinkard	Pool Drinkard (19190)	Dedicated Acreage: 40 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communitization, unitization, force-pooling, etc.?  
☐ Yes ☐ No If answer is "yes" type of consolidation \_\_\_\_\_  
If answer is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.)  
No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division.



OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Signature  
*Debra J. Anderson*  
Printed Name  
Debra J. Anderson  
Position  
Sr. Engineering Technician  
Company  
Apache Corporation  
Date  
06/29/99

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed  
Signature & Seal of Professional Surveyor  
Certificate No.

Submit to Appropriate  
District Office  
State Lease - 4 copies  
Fee Lease - 3 copies

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-102  
Revised 1-1-89

**OIL CONSERVATION DIVISION**

**DISTRICT I**  
P.O. Box 1980, Hobbs, NM 88240

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1000 Rio Brazos Rd., Aztec, NM 87410

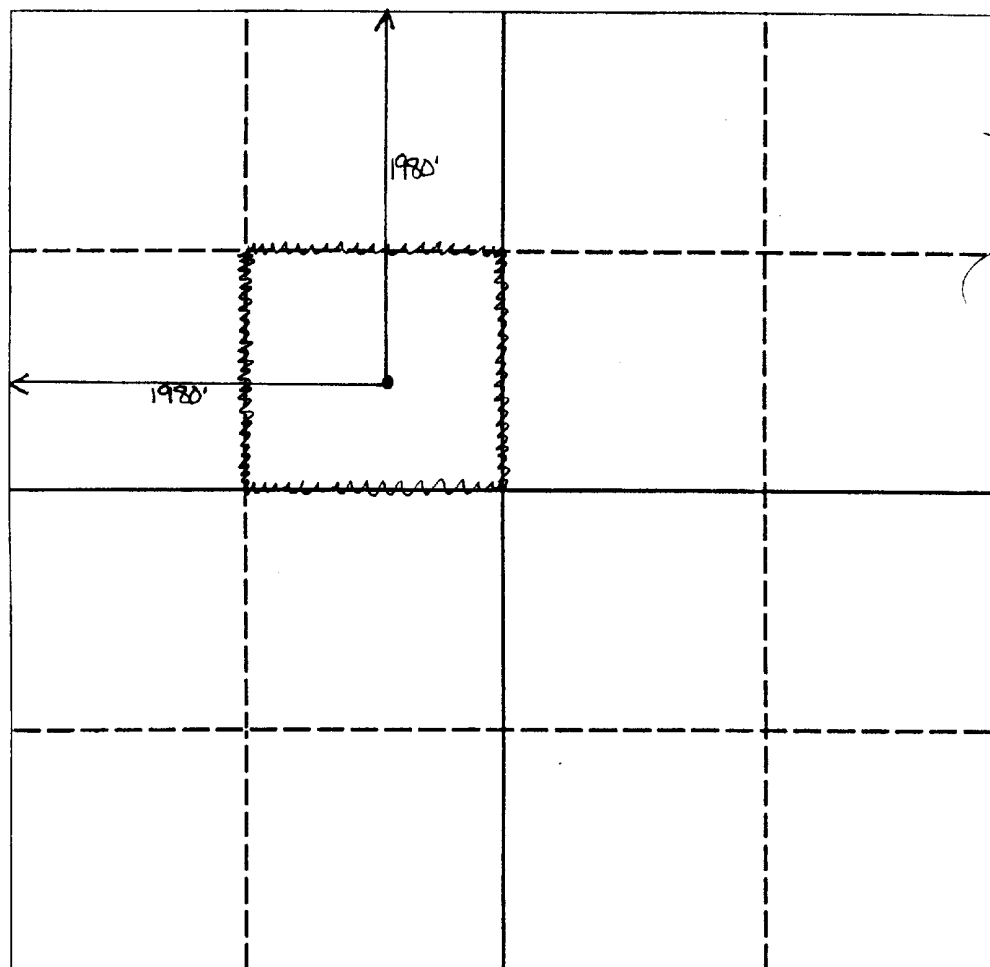
P.O. Box 2088  
Santa Fe, New Mexico 87504-2088

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

All Distances must be from the outer boundaries of the section

Operator Apache Corporation			Lease Rinewalt		Well No. 3
Unit Letter F	Section 4	Township 22S	Range 37E	County Lea	NMPM
Actual Footage Location of Well: 1980 feet from the North line and 1980 feet from the West line					
Ground level Elev. 3456	Producing Formation Abo		Pool Wantz Abo (67200)		Dedicated Acreage: 40 Acres

- Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communitization, unitization, force-pooling, etc?  
☐ Yes ☐ No If answer is "yes" type of consolidation \_\_\_\_\_  
If answer is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.)  
No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division.



**OPERATOR CERTIFICATION**  
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Signature  
*Debra J. Anderson*  
Printed Name  
Debra J. Anderson  
Position  
Sr. Engineering Technician  
Company  
Apache Corporation  
Date  
06/29/99

**SURVEYOR CERTIFICATION**  
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed  
Signature & Seal of Professional Surveyor

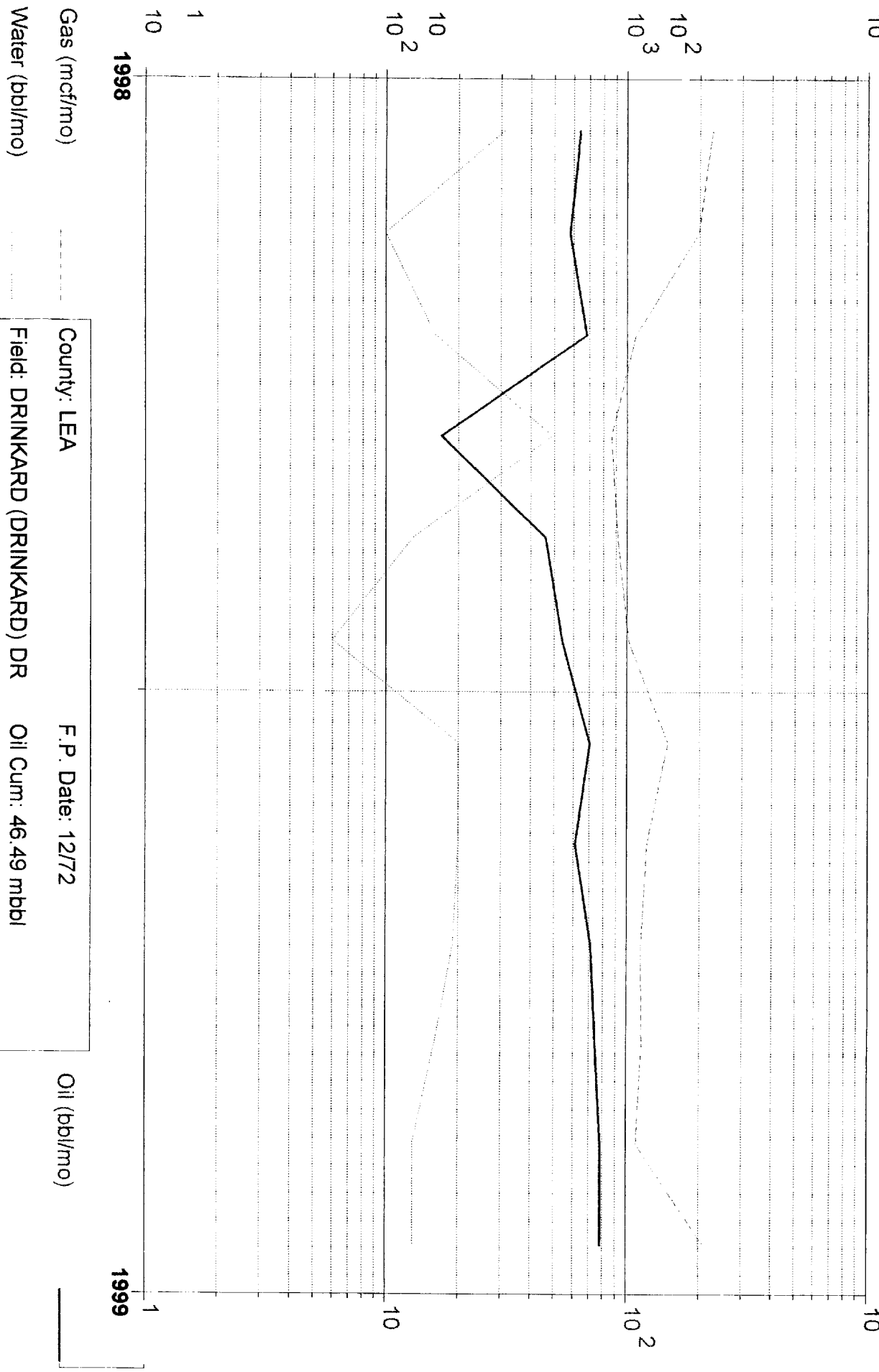
Certificate No.

0 330 660 990 1320 1650 1980 2310 2640 2000 1500 1000 500 0

3  
10  
4  
10  
Lease: RINEWALT (3)

Dwights  
06/22/99

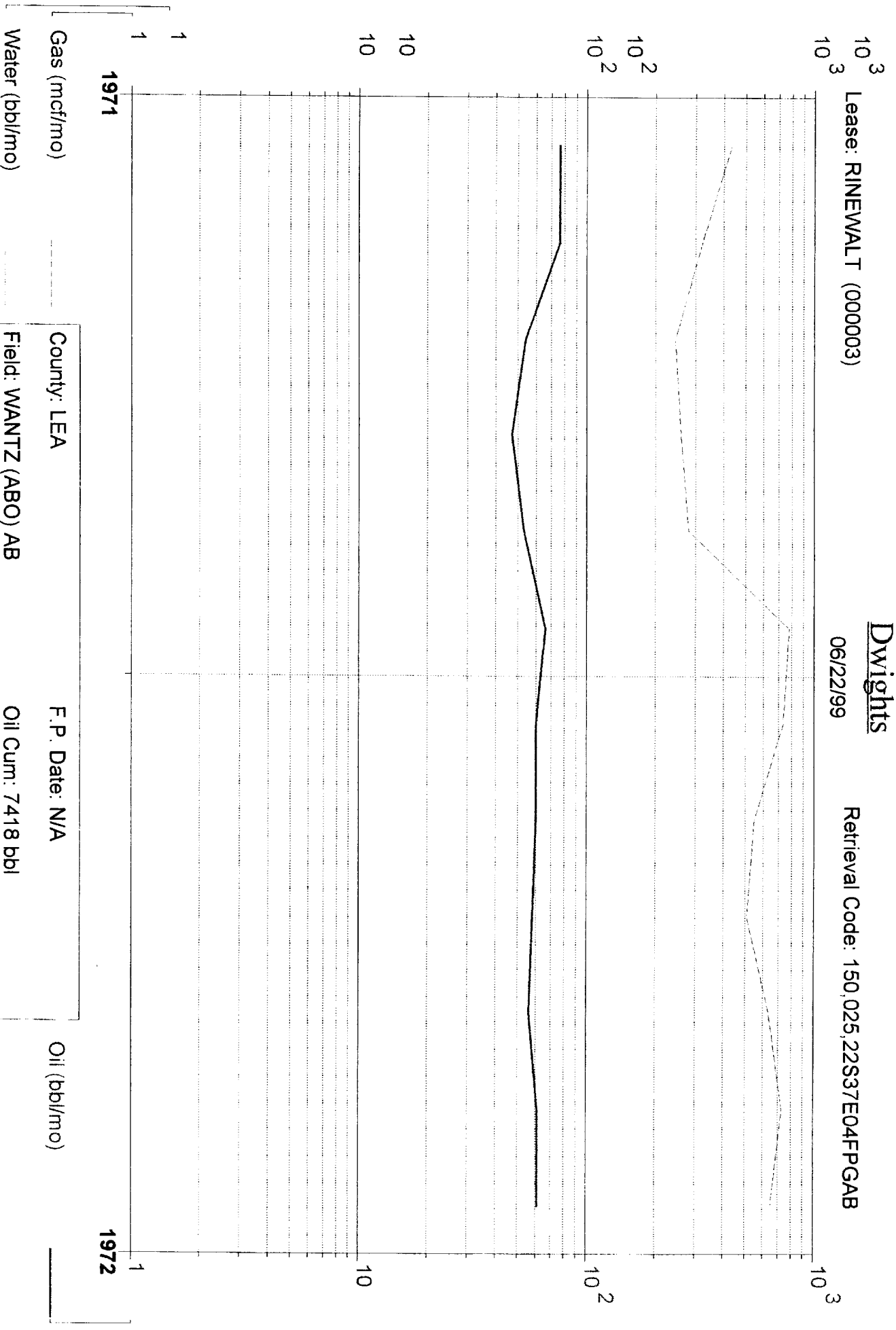
Retrieval Code: 150,025,22S37E04F00DR



County: LEA	F.P. Date: 12/72
Field: DRINKARD (DRINKARD) DR	Oil Cum: 46.49 mbbl
Reservoir: DRINKARD	Gas Cum: 2654 mmcf
Operator: APACHE CORP	Location: 4F 22S 37E

06/22/99

Lease: RINEWALT (000003)



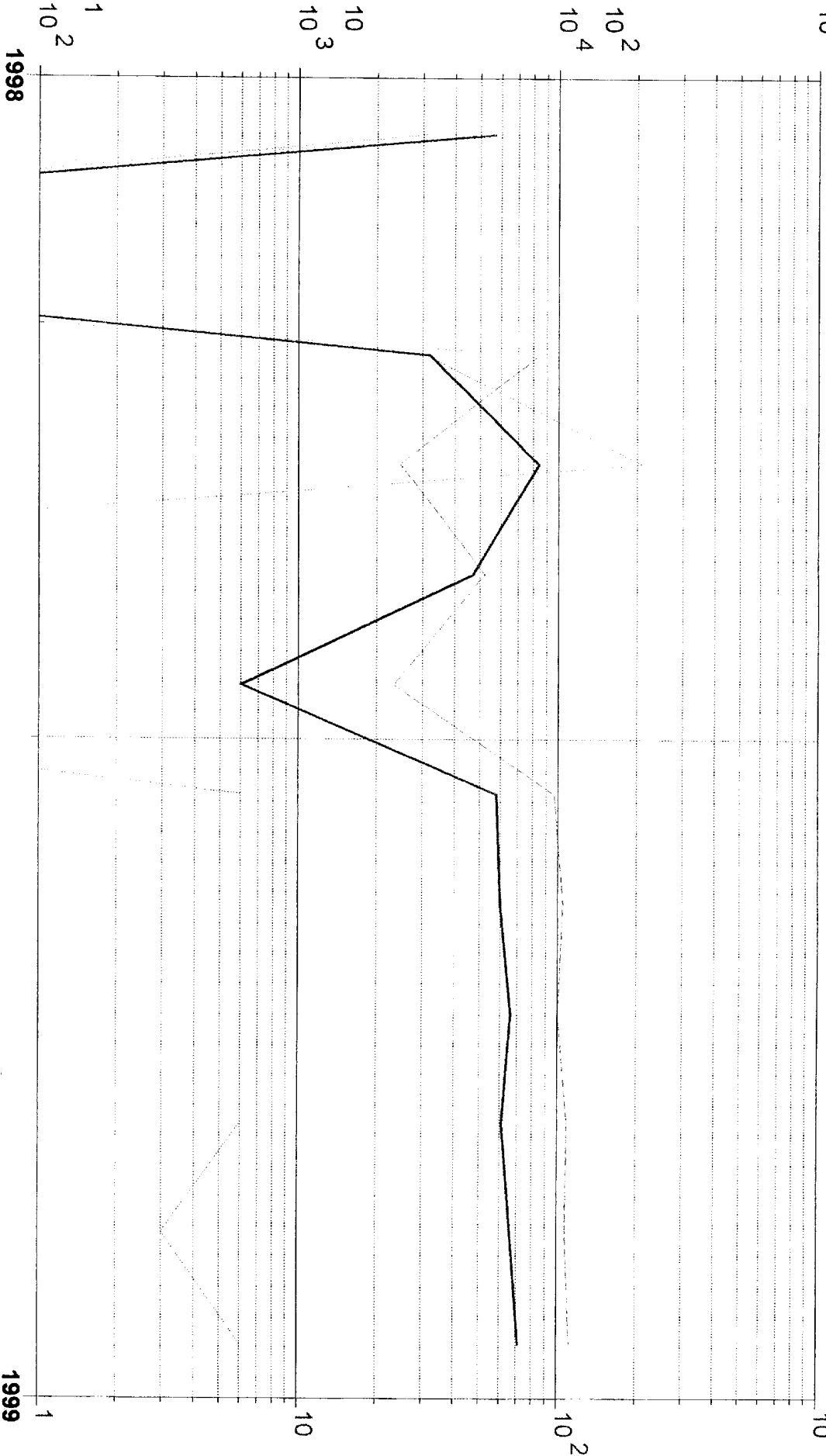


Dwights

06/22/99

Retrieval Code: 250,025,0251004562700

Lease: R L BRUNSON (2)



Gas (mcf/mo)

Water (bbl/mo)

County: LEA

Field: WANTZ (ABO) AB

Reservoir: ABO

Operator: TEXACO EXPL & PROD I

Oil (bbl/mo)

F.P. Date: 01/93

Oil Cum: 6056 bbl

Gas Cum: 967.1 mmcf

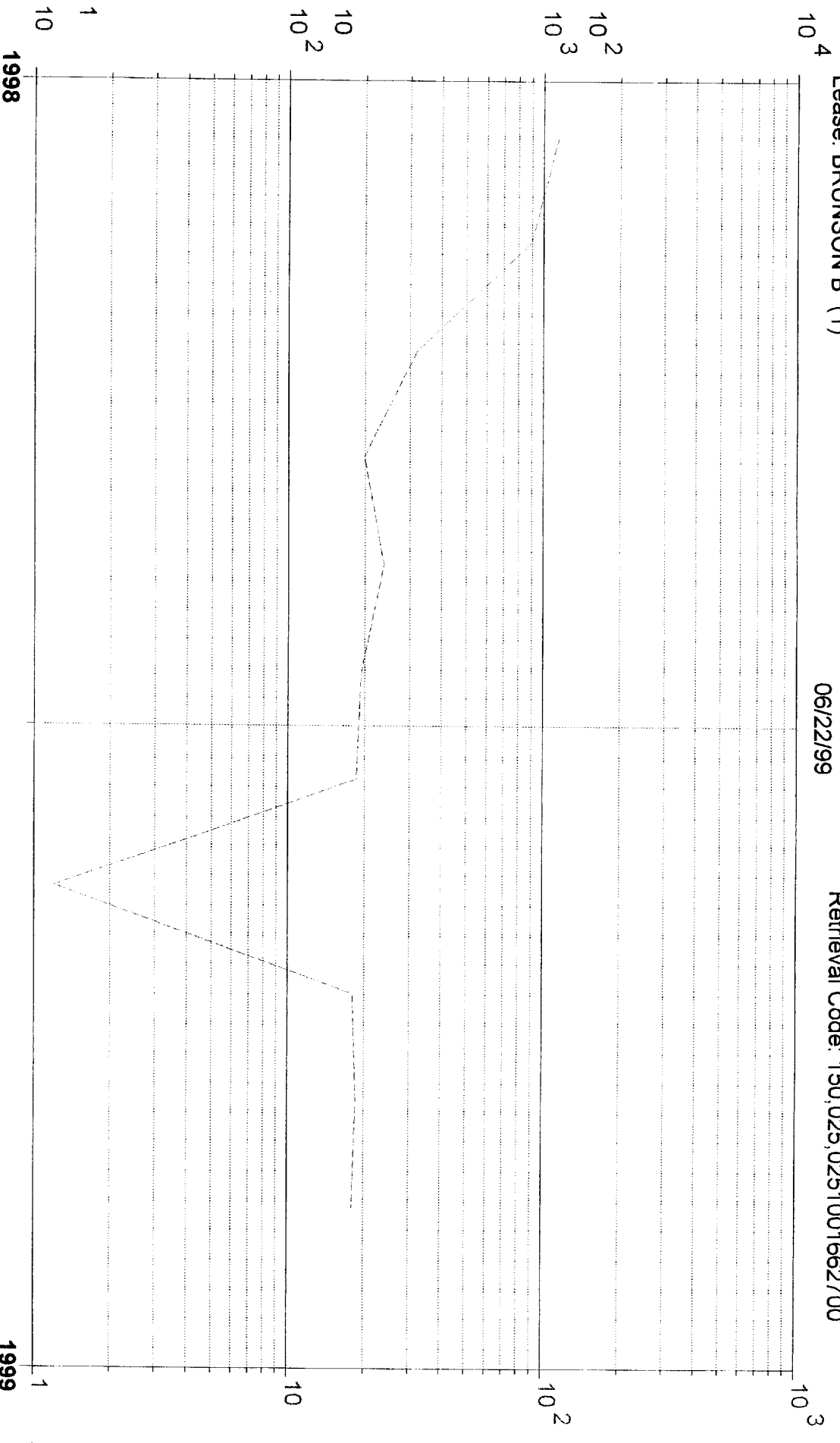
Location: 4P 22S 37E

Dwights

Lease: BRUNSON B (1)

06/22/99

Retrieval Code: 150,025,0251001662700



County: LEA

F.P. Date: 07/97

Oil (bbl/mo)

Field: WANTZ (ABO) AB

Oil Cum: 0 bbl

Reservoir: ABO

Gas Cum: 7768 mcf

Operator: OXY U S A INC

Location: 41 22S 37E

## Allocation Formula Explanation

Rinewalt # 3

Drinkard Pool ( 19190 )

	Oil	Gas	Water
5/15/99	3	75	1

Wantz Abo Pool ( 67200 )

The Abo interval in the Rinewalt No. 3 well was abandoned in December 1972 making 2 BOPD x 65 MCFD. The well is offset to the south by two recent Abo completions: R.L. Brunson No. 2 ( 1 BOPD x 400 MCFD ) and Brunson Argo No. 20 ( 20 BOPD x 110 MCFD ). Both of these wells are perforated in the lower Abo which is not open in the Rinewalt No. 3. An initial rate of 5 BOPD x 100 MCFD is expected.

**Rinewalt No. 3 Downhole Commingle Application  
Offset Operators**

Arch Petroleum  
802 E. Texas  
Eunice, New Mexico 88231  
Certified Rcpt. # Z 116 148 813

Cross Timbers Operating Company  
3000 N. Garfield, Suite 250  
Midland, Texas 79705  
Certified Rcpt. # Z 116 149 273

BEC Corporation  
110 N. Marienfeld, Suite 370  
Midland, Texas 79702  
Certified Rcpt. # Z 116 148 814

Texaco E&P Inc.  
205 E. Bender Blvd.  
Hobbs, New Mexico 88240  
Certified Rcpt. # Z 116 149 274

Chevron USA Inc.  
P O Box 1150  
Midland, Texas 79702  
Certified Rcpt. # Z 116 148 815

Wiser Oil Company  
3504 N. West County Rd.  
Hobbs, New Mexico 88241  
Certified Rcpt. # Z 116 149 275

Collins & Ware  
303 W. Wall, Suite 2200  
Midland, Texas 79701  
Certified Rcpt. # Z 116 148 816

Zia Energy  
1234 W. Broadway Place  
Hobbs, New Mexico 88241  
Certified Rcpt. # Z 116 149 276



June 30, 1999

Offset Operators

**Re: Application to Downhole Commingle  
Rinewalt No. 3  
Drinkard Pool (49210) and Wantz Abo Pool (62700)  
Lea County, New Mexico**

Attached please find a copy of an Application to Downhole Commingle the referenced pools in the Rinewalt # 3 that Apache Corporation has filed with the New Mexico Oil Conservation Division. If you have an objection to this application, you must notify the OCD in writing within 20 days from the date of this letter.

Sincerely,

**APACHE CORPORATION**

A handwritten signature in black ink, appearing to read "Debra J. Anderson", written over a horizontal line.

Debra J. Anderson  
Sr. Engineering Technician

Attachment

cc: New Mexico – Oil Conservation Division  
2040 S. Pacheco  
Santa Fe, New Mexico 87505

[illegible]

**APACHE CORPORATION  
RINEWALT No. 3 - Downhole Commingle  
SEC. 4 / T-22S / R-37E  
LEA COUNTY, NEW MEXICO**

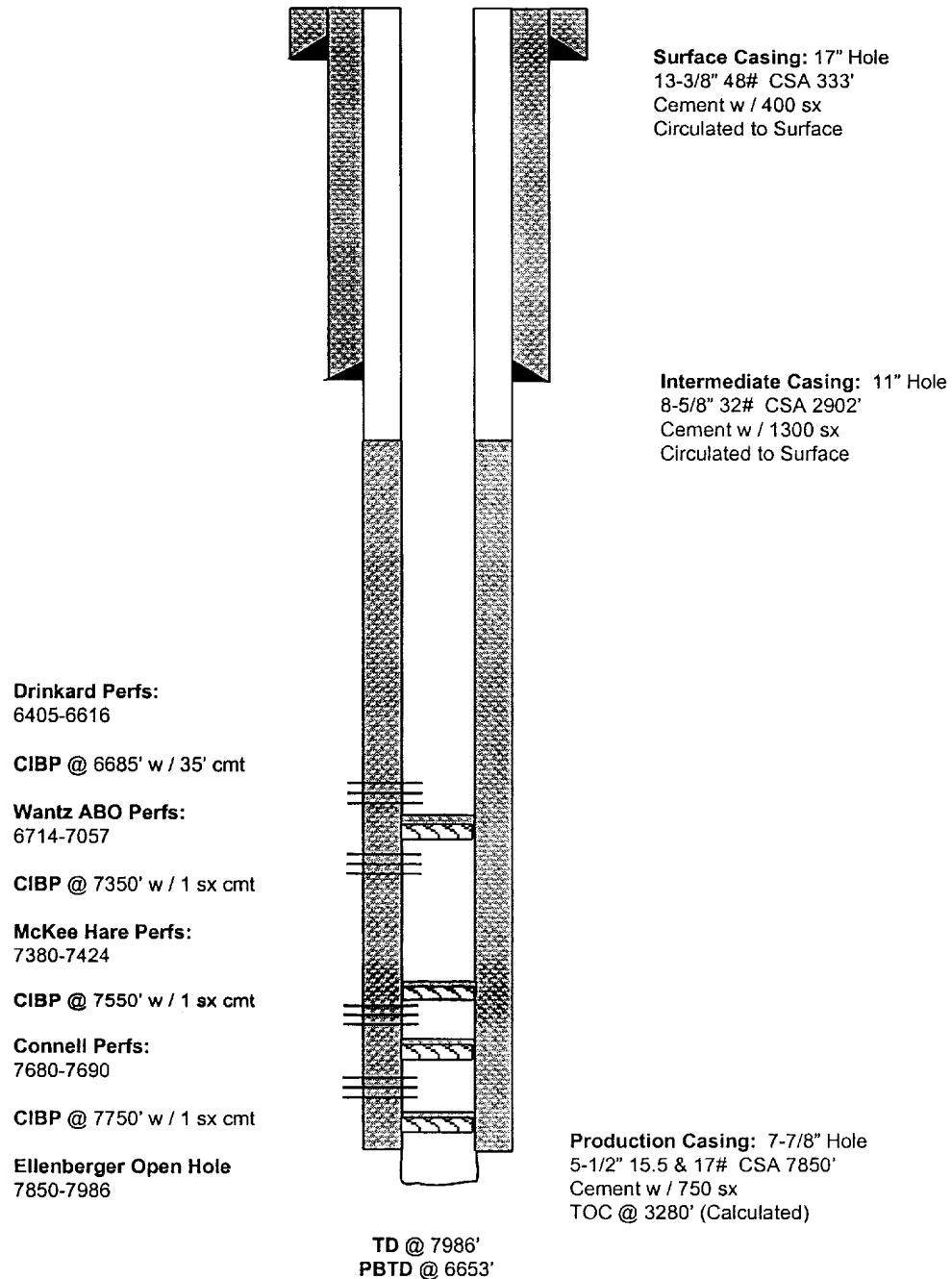
Well: Rinewalt #3

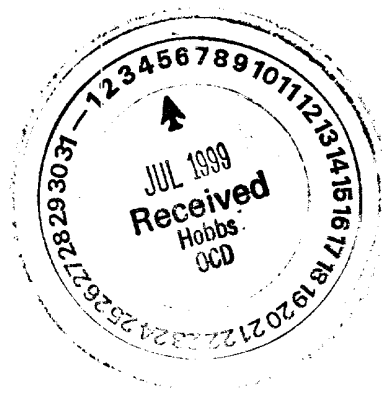
Current Status: Active Oil

Field: Drinkard

Location: 1990' FNL, 1980' FWL  
Section 4, Township 22S, Range 37E

API#: 30-025-10036







Well: Rinewalt #3  
Field: Drinkard  
Location: 1990' FNL, 1980' FWL  
Section 4, Township 22S, Range 37E  
API#: 30-025-10036

Proposed Status: Active Oil  
Downhole Commingled from  
Drinkard & Wantz ABO Pools

